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**Pollution Prevention in India:
Hyderabad Water Management Information System (IND)
HyWaMIS**

IND 4-27

Contract No. ASI/B7-300/95/140-53

User Manual

Author: JAGADISH GOKAVARAPU

City of Hyderabad, IND

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1 Introduction

General Water Management Information System addresses water management problems and requirements and availability of data. HyWaMIS is designed as a modular and open structure combining modules of different water management sectors. Initially, Industrial module is being developed; further modules could be added in future in a similar way.

HyWaMIS is being implemented based on Microsoft Visual Studio VB.Net framework as a 3-tier application using Oracle Database. It is a Windows explorer kind of a tool for easy access of information and consists of a switchboard with a tree. Clicking on leaf of the tree can retrieve information. This tool has basic functions to insert, update, delete, query, and export/save data along with some analysis, summary and reporting facilities. Users can customize the application to suite their specific needs / frequently used queries.

Access restrictions were also implemented in HyWaMIS using Oracle Database User Roles by which only authorized users can access the information. It provides two types of access; one is public access and the other is a privileged access. Public requires no authentication whereas for privileged access, one has to provide user name and password to access the information and to modify the data. Based on the privileges, different functions of MIS have been enabled /disabled

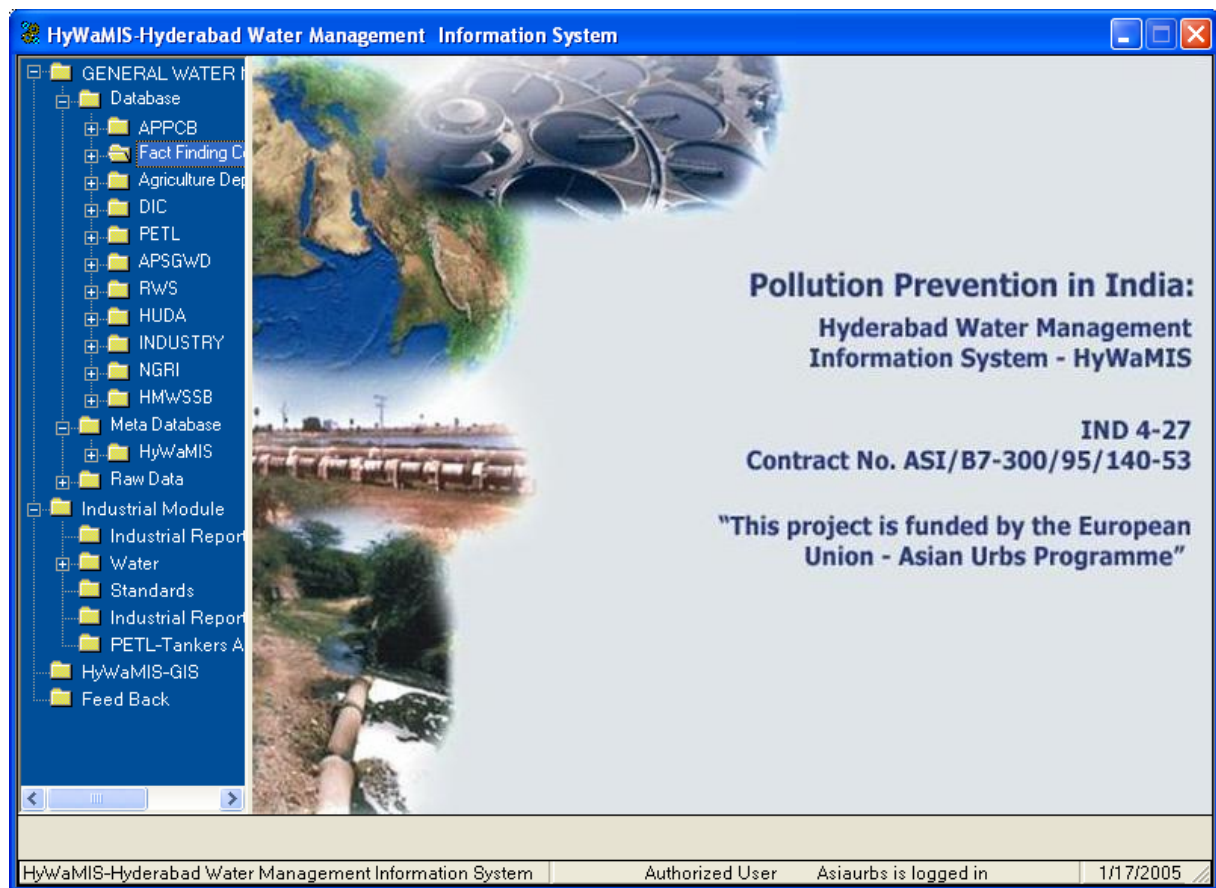
2 Main Features

2.1 Modules

The application consists of 3 modules namely, General Water MIS, HyWaMIS-GIS and Industrial Module via.

- General Water MIS
 - Consistent (offline) database
 - Meta-database
 - Raw Data
- Industrial Module
 - Industrial Report
 - Information on Water
 - Standards
 - Industrial Report
- HyWaMIS – GIS

Sample screen-shot is given below



2.2 User Authentication and Authorization

Authentication and authorization mechanism is implemented in HyWaMIS to provide advanced functionality as well as confidential data to privileged users. Privileged users can provide their login and password information in login screen, HyWaMIS security mechanism validates the login information. Authorize of users is handled with the help of Oracle user roles.

In case of general public access user need not supply any username and password. User just need to select public radio button and press login button to login to the system.



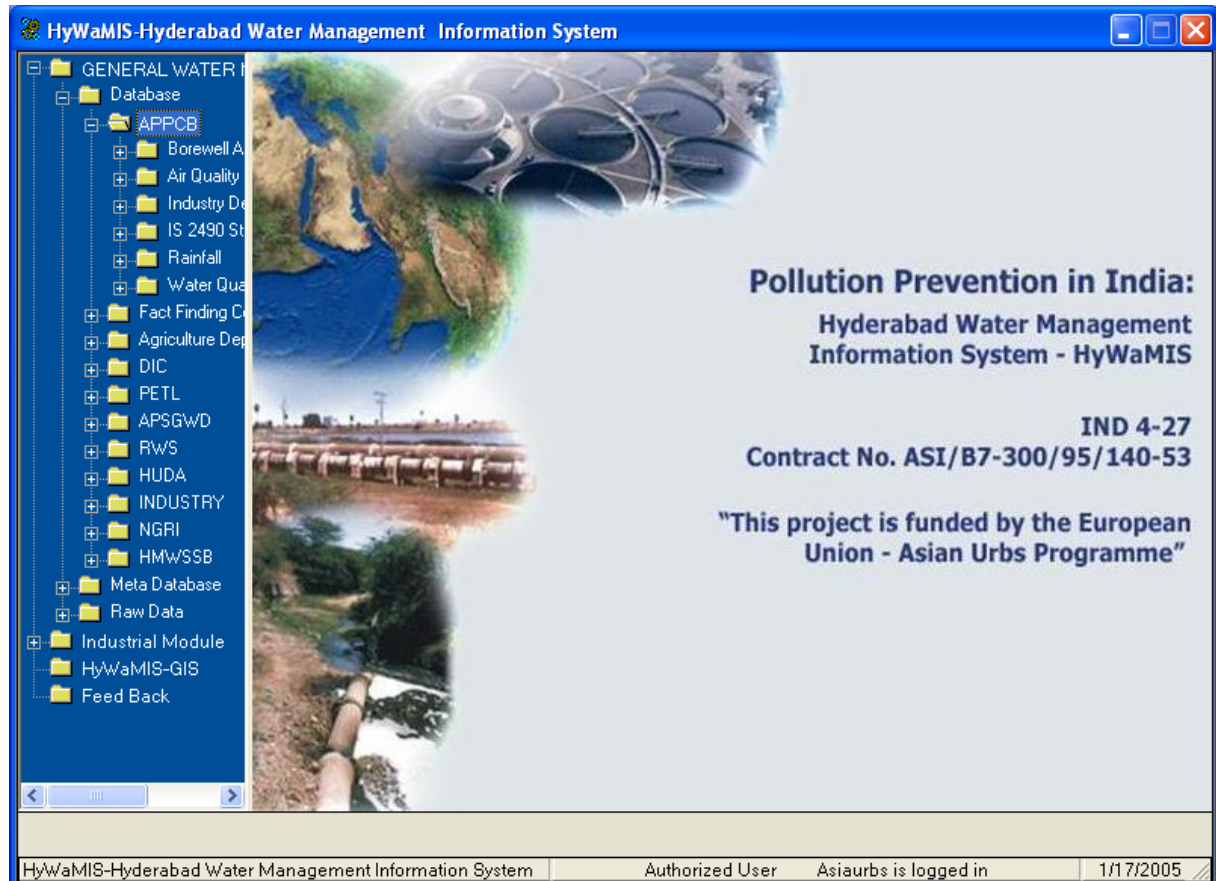
If the user logs in with a username and password then that user is considered as an authorized user and this information is displayed in status bar, ex: Authorized User AsiaUrbs is logged in. A privileged user can customize the application. A privileged user can do the following apart from data administration via select, insert, update and delete:

- Add Table

- Add URL
- Add Custom Query
- Modify Link etc

2.3 Switch Board

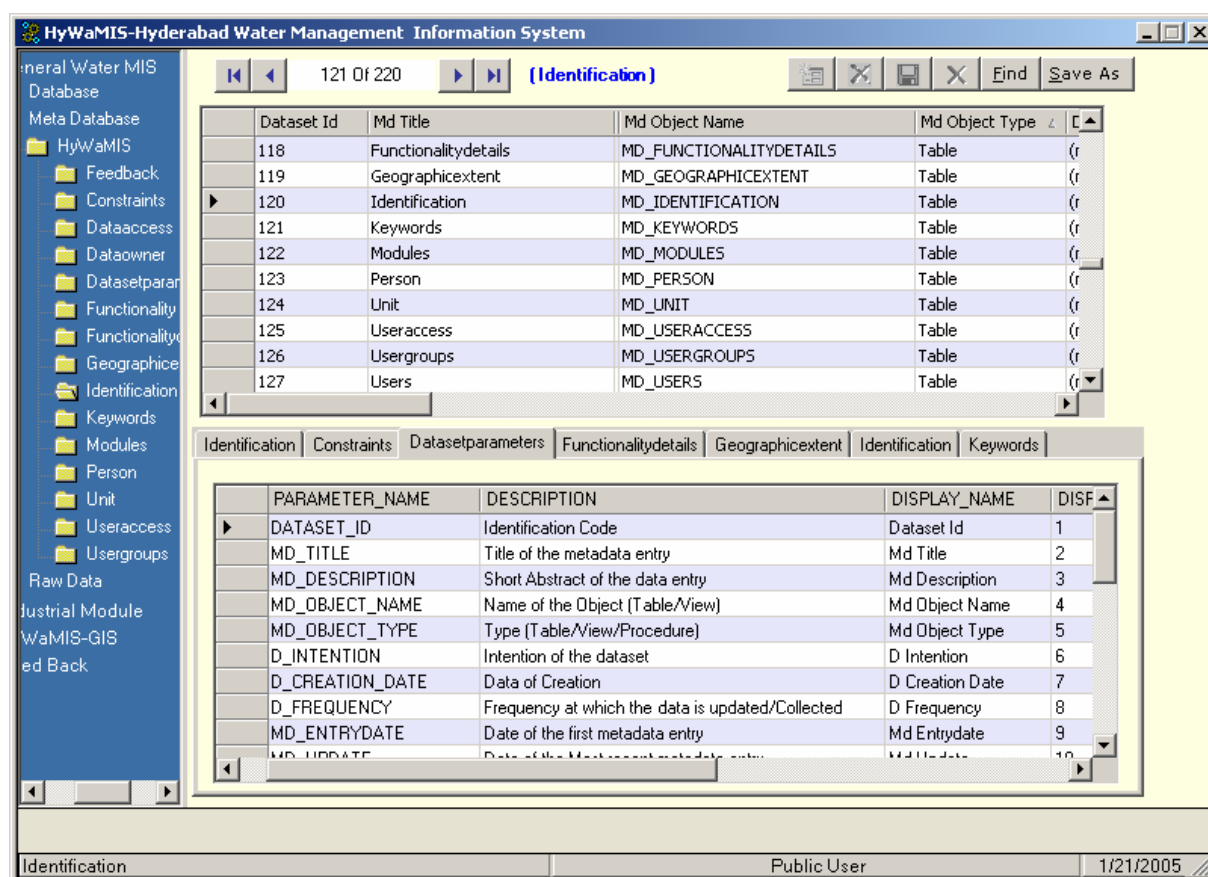
Switch Board control of the application helps the user to easily navigate through a tree and select the required option. The application generates the tree based on the user privileges.



2.4 Metadatabase

HyWaMIS provides user interface to manage metadatabase. Metadatabase is the heart of system, which provides all the control information to connect to different data sources and to know the format and availability of data at different data sources.

A sample screen-shot is given below:



3 System Requirements

3.1 Server System Requirements

Please make sure your server system meets the following minimal requirements before installation:

- Windows NT, Windows 2000 Server
- Oracle 8.0.5 or higher
- Intel Pentium II or above
- IIS web server
- Free hard disk space of up to 1 GB
- 256 MB RAM

3.2 Client System Requirements

Please make sure your client system meets the following minimal requirements before installation:

- Windows 2000, Windows XP
- Intel Pentium II 350 MHz or above
- 128 MB RAM
- Free hard disk space of at least 40 MB
- Minimal desktop resolution at 800x600 or 1024x768 recommended
- The following pre requisite software
 - Java enabled Internet Explorer
 - Microsoft Office 2000 or above
 - Adobe acrobat reader
 - Oracle Client
 - Microsoft .NET framework 1.1
 - Crystal Reports for Visual Studio .NET

4 Visual Overview

4.1 Login Screen

Login screen provides two options to users to choose to login to the information system. Namely

- Public
- Authorized



A screenshot of a login form. At the top, there are two radio buttons: 'Public' (which is selected) and 'Authorized'. Below these are two text input fields: 'User Name :' and 'Password :'. A blue 'Login' button is positioned at the bottom right of the form.

Public users can access certain information, which is public such as General Water MIS, Industrial Module, HyWaMIS-GIS and feed back form, by default **Public** option is selected

Authorized users must login with their User Name along with Password so that they can access all the information that is public as well as confidential.

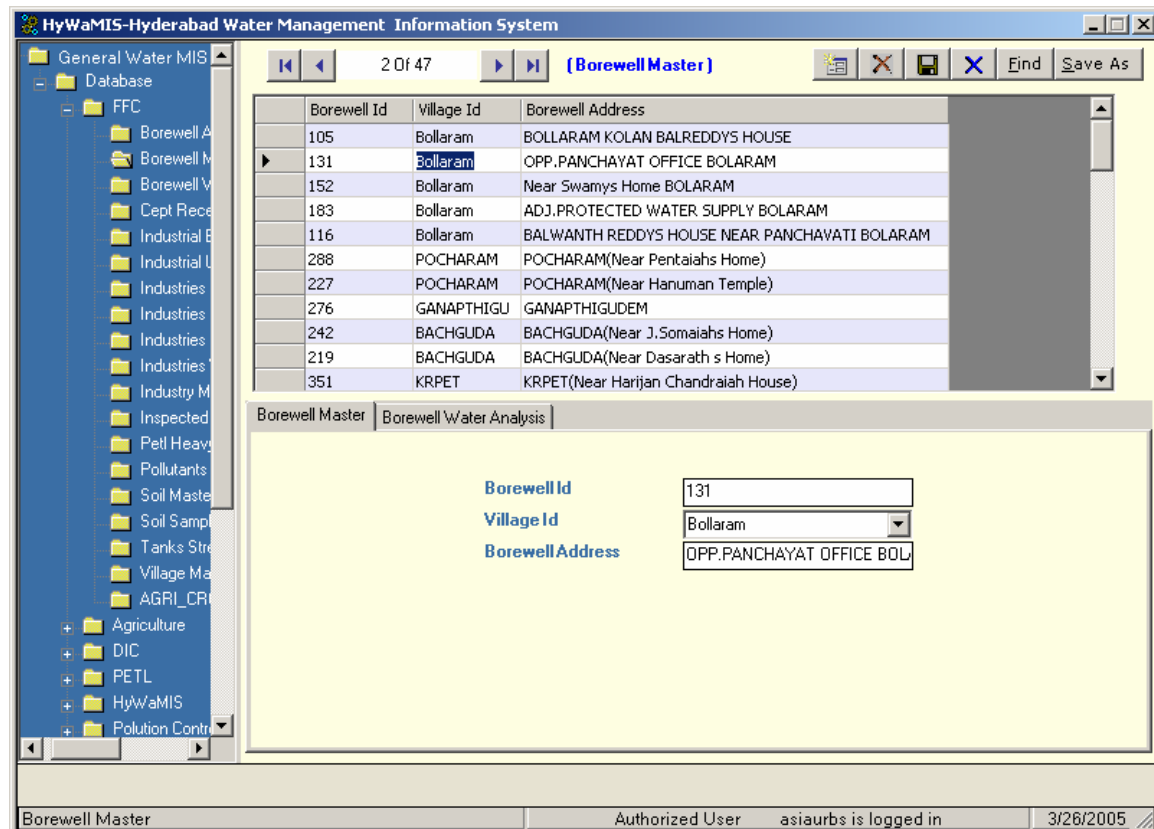
An Authorized User must select Authorized option; once this option is selected login and password fields are enabled. Enter the login Name and password and click login to login to system.



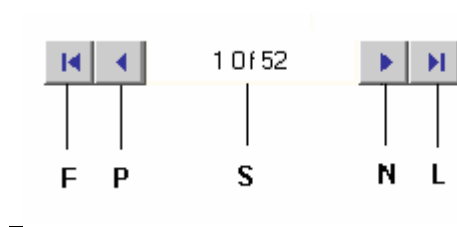
A screenshot of the same login form, but with the 'Authorized' radio button selected. The 'User Name :' field now contains the text 'Asiaurbs' and the 'Password :' field contains a series of asterisks 'xxxxxxxx'. The 'Login' button remains at the bottom right.

4.2 User Interface

A generic User Interface of the system consists of a Navigator to navigate between records, a data control tool bar, and a data grid to display data and a number of tab pages to display related data as shown in the screenshot.



Navigator: This allows the user to navigate the records in the **DataGrid**. It has First, Last, Previous and Next options. Selection of these buttons results in movement of cursor to first record, last record, next record and previous record in the grid.



F: Moves to first record

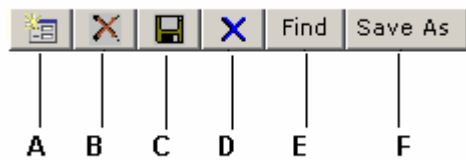
P: Moves to previous record

N: Moves to next record

L: Moves to last record

S: Displays Current record position and total number of records

Data control toolbar allows the user to insert new records, delete records, save any modified records, find any data based on some criteria and export data.



A: New Record

B: Delete

C: Save

D: Cancel

E: Find

F: Save As

New Record: This option allows the user to insert new record

Steps:

- Select the New Record Option in DataControl
- A new record is added to the **DataGrid**.
- Enter the new data into the appropriate Textboxes not in DataGrid
- Select the grid and Navigate the records by using Navigator Control
- This data is saved and displayed when the data is reloaded. (To reload select Reload Option in Context Menu).

HyWaMIS-Hyderabad Water Management Information System

20 Of 20 (BorewellAggarwal)

Find Save As

Borewell Id	Method Of Test	Pollutant Id	Sample1 Value	Sample2 Value	New Record	Sample4 Value	Sample5 Value
12	2320 B	BICARBONAT	485	423	411	344	79.6
13	5220-D	Chemical Oxy	14	10	15	12	52
14	3030 /3114.C	ARSENIC	BDL	BDL	BDL	BDL	BDL
15	3030 /3114.	CHROMIUM	BDL	BDL	BDL	BDL	BDL
16	3031 /3111.	LEAD	BDL	BDL	BDL	BDL	BDL
17	3032 /3111.	NICKEL	BDL	BDL	BDL	BDL	BDL
18	3033 /3111.	COPPER	BDL	BDL	BDL	BDL	BDL
19	3034 /3111.	CADMIUM	BDL	BDL	BDL	BDL	BDL
(null)	(null)	(null)	(null)	(null)	(null)	(null)	(null)

New Record

Borewell Id

Method Of Test

Pollutant Id

Sample1 Value

Sample2 Value

Sample3 Value

Sample4 Value

Sample5 Value

Fields

Borewell Aggarwal

Authorized User asiaurbs is logged in

3/24/2005

Delete Record: This option allows the user to delete selected row.

Steps involved:

- Select Data to be deleted and then select Delete option.
- Reload the data by selecting Reload option in Context Menu.

Save and Cancel: This option allows the user to Save and Cancel the Edit Operations

Find: This option allows finding information based on some criteria.

Steps involved:

Select **Find** option, a window is displayed which has to option

- Master Table
- Detailed Table

Find In : ☒ Master Table ☐ Detailed Table

Find By		Criteria	and/or
LAKE_ID	<	20	

```
select LAKE_ID, LAKE_NAME, VILLAGE_ID from HUDA_LAKE_MASTER where LAKE_ID < 20
```

In the user interface first tab is the **Master Tab**, when this is selected only Master Table option in the find window is enabled, when Find option is selected in detail tabs is selected both options are enabled. Select any one of the options.

If Master Table option is selected, search is performed against the Master Table based on given criteria.
If Detailed Table option is selected, search is performed against the Detail Table.

After Selecting Master Table option or Detail Table option, enter the search criteria in grid and then select **Find Button**, the result is displayed in appropriate grid i.e., in Master Grid or in Detailed Grid.

Another Option is Advanced **Button**, by selecting this the query is display is below the Criteria grid.

Save As: This option allows the user to save the data as Excel File, Word Format or any other file format.

DataGrid: This displays the actual data.

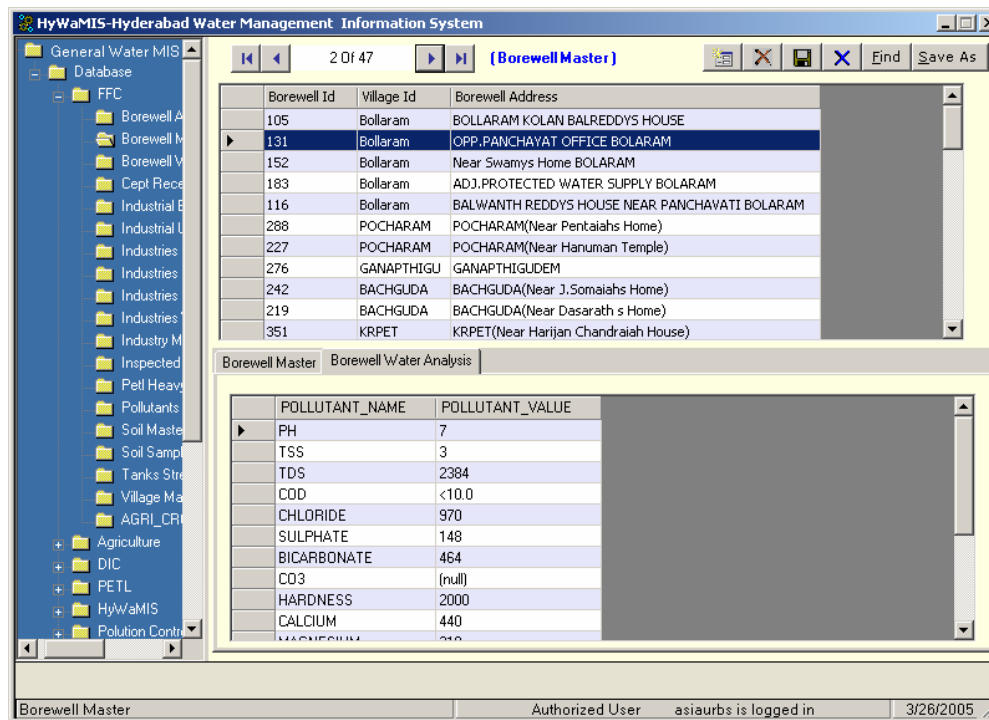
Tabs: Master and Detail Information are displayed based on Selection of this Tabs. First Tab is the **Master Tab** Next to This tab is **detail Tabs**.

Master Tab: When this tab is selected, current record from DataGrid is displayed as a form, user can Insert, Update and Delete records.

Borewell Id	Village Id	Borewell Address
105	Bollaram	BOLLARAM KOLAN BALREDDYS HOUSE
131	Bollaram	OPP.PANCHAYAT OFFICE BOLARAM
152	Bollaram	Near Swamys Home BOLARAM
183	Bollaram	ADJ.PROTECTED WATER SUPPLY BOLARAM
116	Bollaram	BALWANTH REDDYS HOUSE NEAR PANCHAVATI BOLARAM
288	POCHARAM	POCHARAM(Near Pentaiahs Home)
227	POCHARAM	POCHARAM(Near Hanuman Temple)
276	GANAPTHIGU	GANAPTHIGUEDEM
242	BACHGUDA	BACHGUDA(Near J.Somaiahs Home)
219	BACHGUDA	BACHGUDA(Near Dasarath s Home)
351	KRPET	KRPET(Near Harijan Chandraiah House)

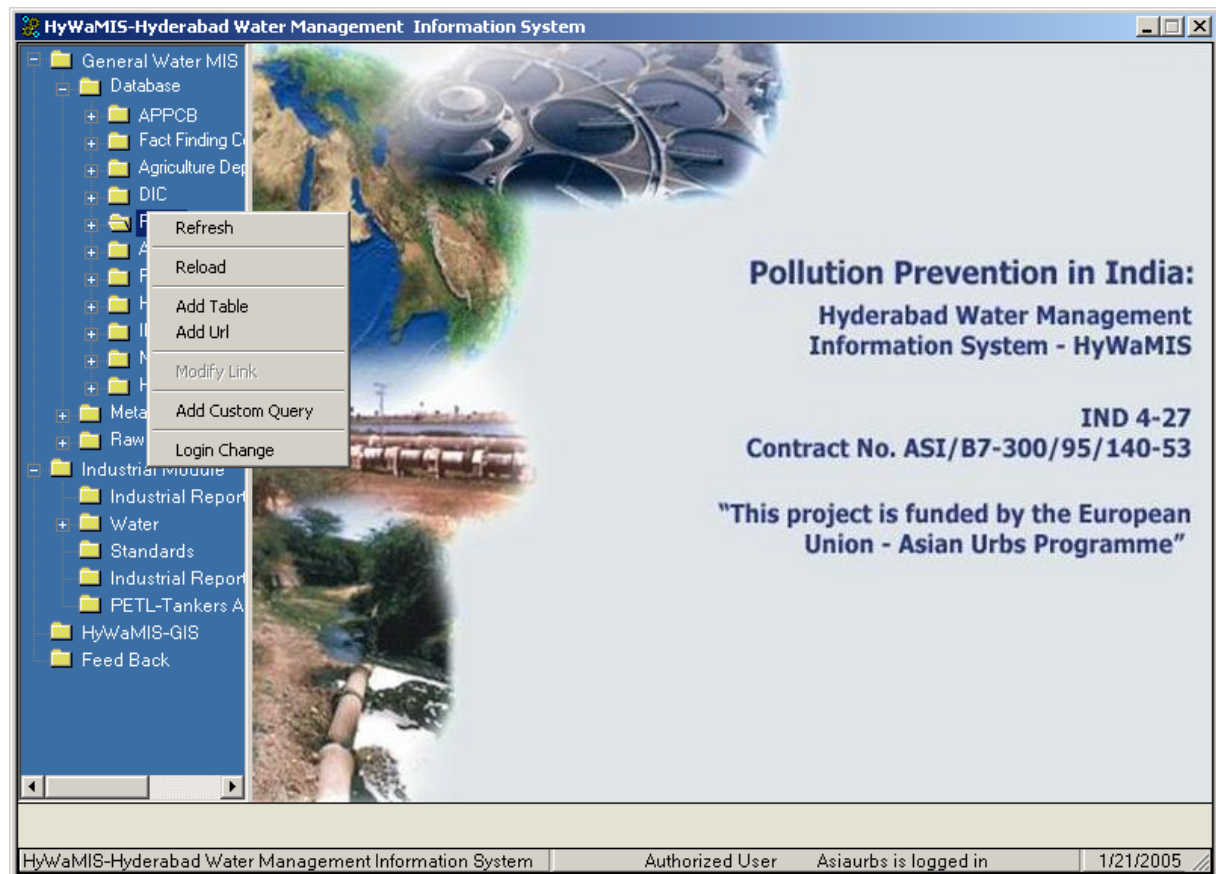
Borewell Id	131
Village Id	Bollaram
Borewell Address	OPP.PANCHAYAT OFFICE BOL

Detail Tab: numbers of tab pages are displayed based on the number of detailed data sets available to the specific master table.



Authorised Users have rights to manipulate data based on the privileges assigned to that user as well as have rights to perform the for following:

- Add table
- Add URL
- Modify Link
- Add Custom Query



These options are available in context menu, which is displayed when authorized user right clicks on particular module. The Options are

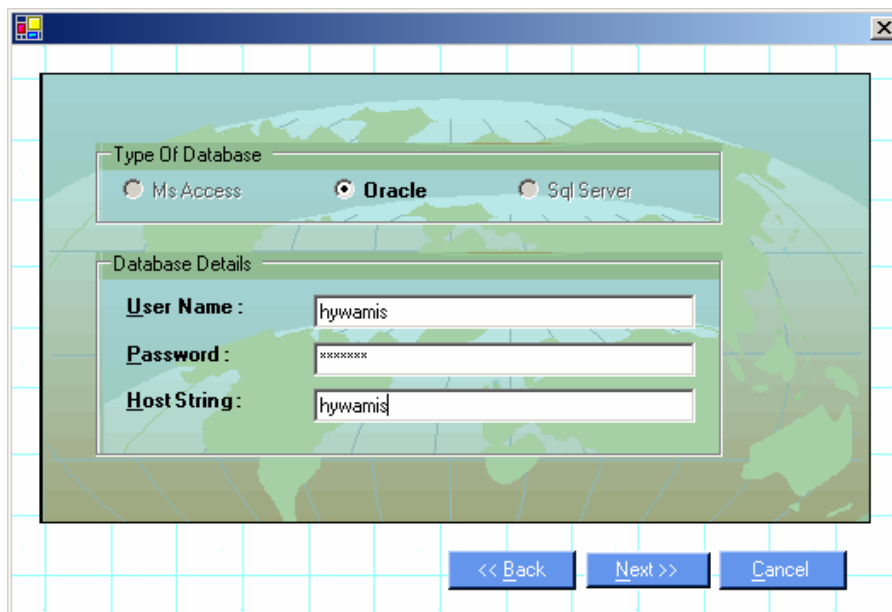
4.3 Add a new table to metadatabase

Add new table:

This option allows the authorized user to add new table information to metadatabase

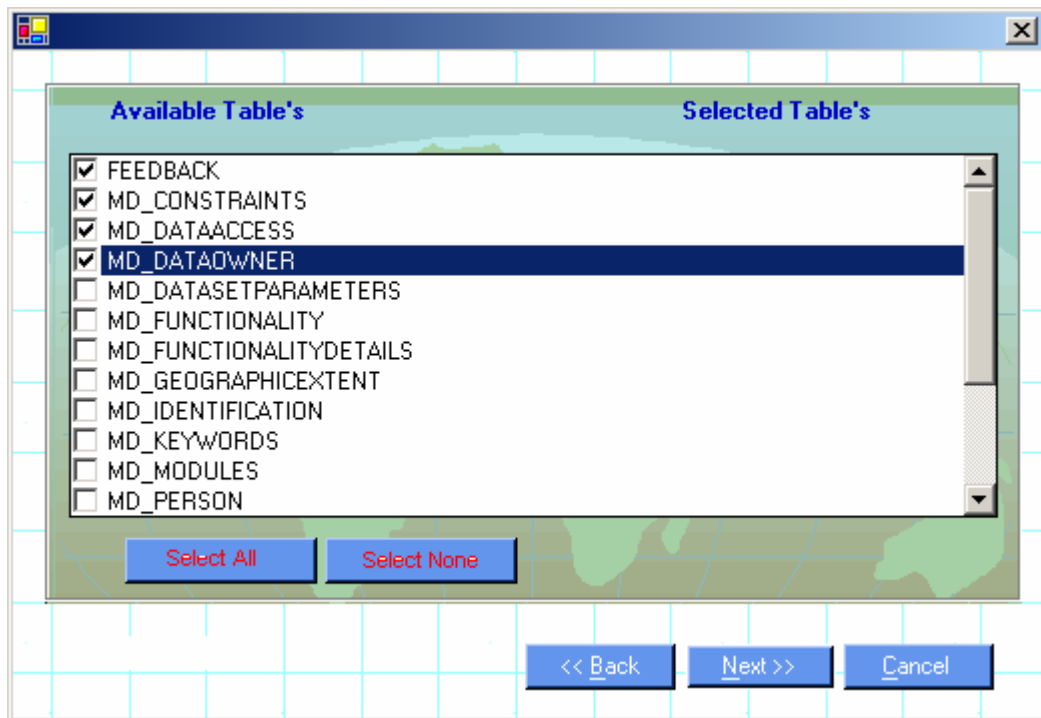
Procedure for adding a new table to database:

- 1) First select the required module on tree view and by right clicking a context menu opens and select Add Table option in it.
- 2) A window will open in that username, password, host strings are to be provided by the user.

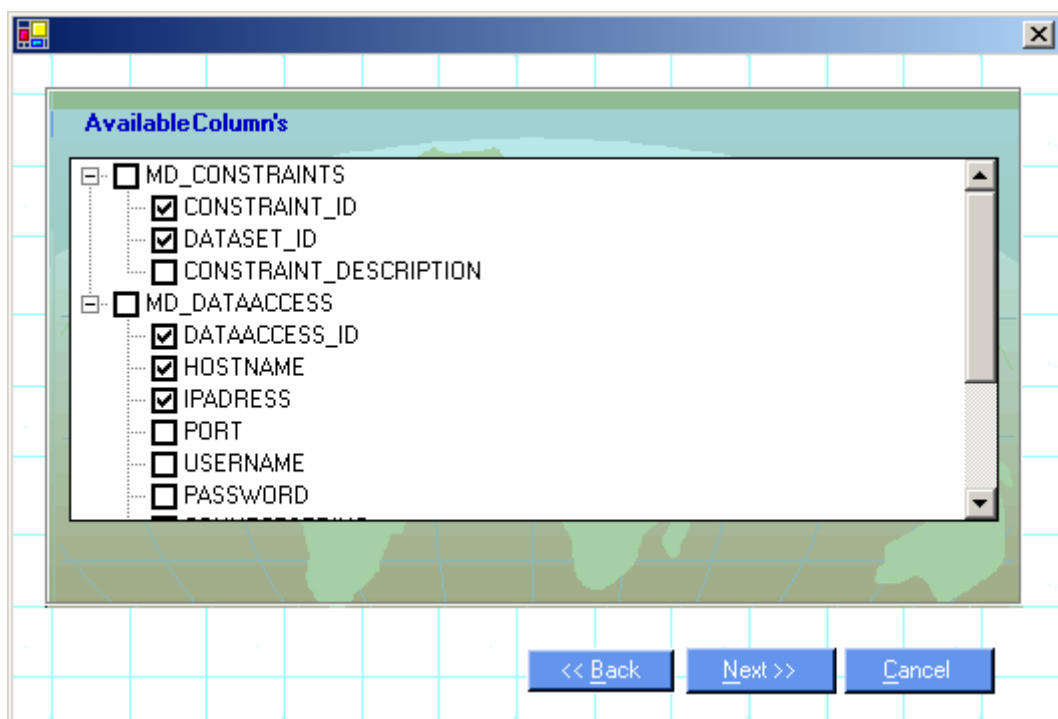


The screenshot shows a Windows-style dialog box titled "Type Of Database". It has a close button in the top right corner. The dialog is divided into two main sections. The first section, "Type Of Database", contains three radio buttons: "Ms Access", "Oracle" (which is selected), and "Sql Server". The second section, "Database Details", contains three text input fields. The first field is labeled "User Name" and contains the text "hywamis". The second field is labeled "Password" and contains a series of "x" characters. The third field is labeled "Host String" and contains the text "hywamis". At the bottom of the dialog, there are three buttons: "<< Back", "Next >>", and "Cancel".

- 3) Clicking Next Button the list of tables will be displayed based on the username, password, host string provided by the user.



- 4) Clicking Next Button will display respective columns for each selected table.



- 5) To display the columns on the user interface select those columns.

- 6) Clicking Next Button those columns are displayed with add relation button beside each row.

Column Id	Column Display Name	Relational Id	Relational Display Id	Display Order	
Table : MD CONSTRAINTS					
CONSTRAINT_ID	CONSTRAINT_ID			1	Add Realat..
DATASET_ID	DATASET_ID			2	Add Realat..
Table : MD DATAACCESS					
DATAACCESS_ID	DATAACCESS_ID			1	Add Realat..
HOSTNAME	HOSTNAME			2	Add Realat..
IPADRESS	IPADRESS			3	Add Realat..

Next Table

<< Back Ok Cancel

- 7) Clicking Add Relation Button the window consists of tables with fields.

Module Name : Database

Data Table : Identification

Relational Column : DATASET_ID

Relational Display Column : MD_TITLE

Ok Cancel

- 8) Select the fields to relate the tables and click OK Button.

Column Id	Column Display Name	Relational Id	Relational Display Id	Display Order	
Table : MD CONSTRAINTS					
CONSTRAINT_ID	CONSTRAINT_ID			1	Add Realat..
DATASET_ID	DATASET_ID	DATASET_ID	MD_TITLE	2	Add Realat..
Table : MD DATAACCESS					
DATAACCESS_ID	DATAACCESS_ID			1	Add Realat..
HOSTNAME	HOSTNAME			2	Add Realat..
IPADDRESS	IPADDRESS			3	Add Realat..
					Next Table

<< Back Ok Cancel

9) Click O.K

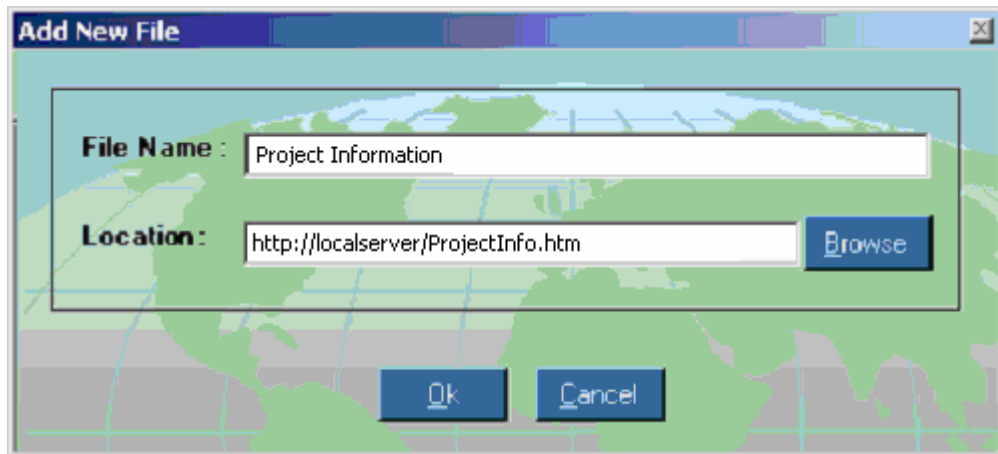
4.4 Add a URL to metadatabase

Add

URL

Procedure for the Addition of new URL:

- 1) First select the required module on tree view and by right clicking a Context menu opens and select Add URL option in it.
- 2) A window will open in that provide file name and path of the file by Clicking browse button to select which file or URL you want to add.



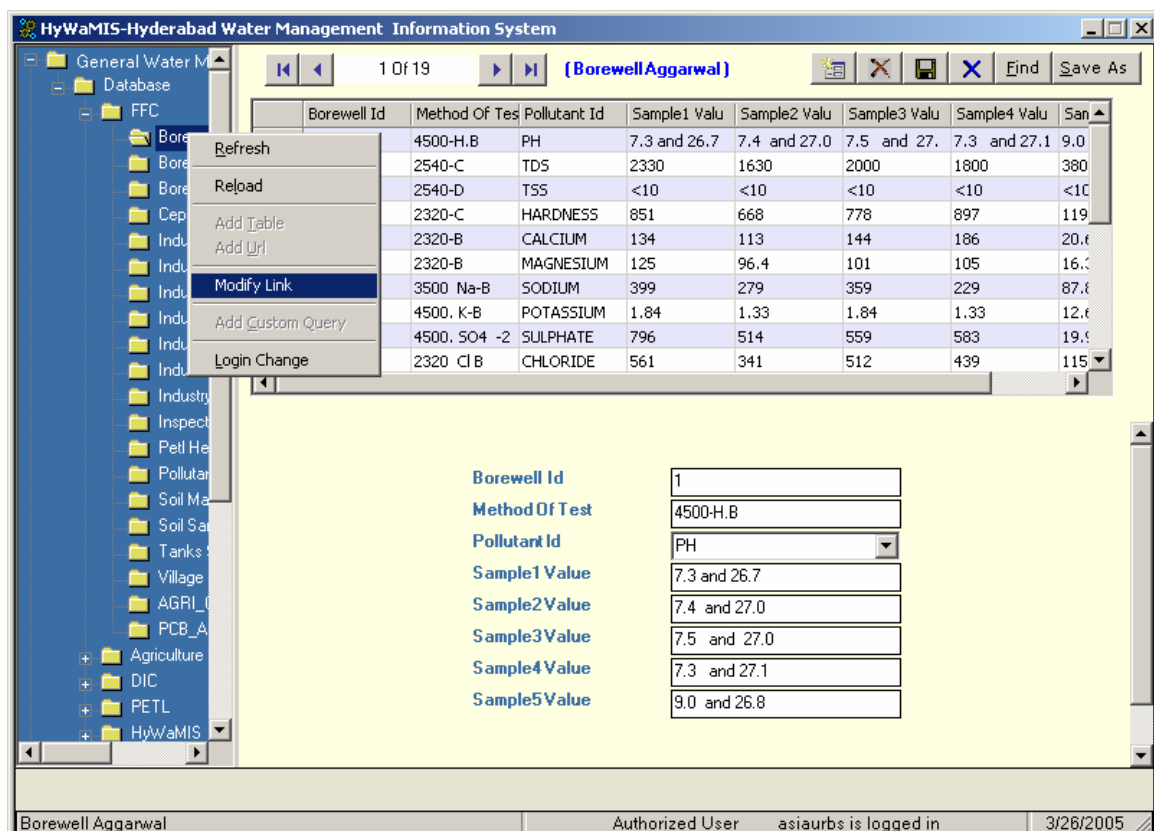
- 3) Click OK Button.

4.5 Modify metadatabase

Modify Link:

Procedure for the Modify Link:

- 1) First select the Link on tree view and by right clicking a Context menu opens and select Modify Link option in it.



- 2) A Window will be displayed, apply the required changes.

Modifying of Borewell Aggarwal

Table Name :

Parameter Name	Display Name	Relational ID	Relational Display ID	Display Order	
BOREWELL_ID	Borewell Id			1	Add Realat..
METHOD_OF_TEST	Method Of Test			2	Add Realat..
POLLUTANT_ID	Pollutant Id	POLLUTANT_ID	POLLUTANT_NAME	3	Add Realat..
SAMPLE1_VALUE	Sample1 Value			4	Add Realat..
SAMPLE2_VALUE	Sample2 Value			5	Add Realat..
SAMPLE3_VALUE	Sample3 Value			6	Add Realat..
SAMPLE4_VALUE	Sample4 Value			7	Add Realat..
SAMPLE5_VALUE	Sample5 Value			8	Add Realat..

3) Click OK Button.

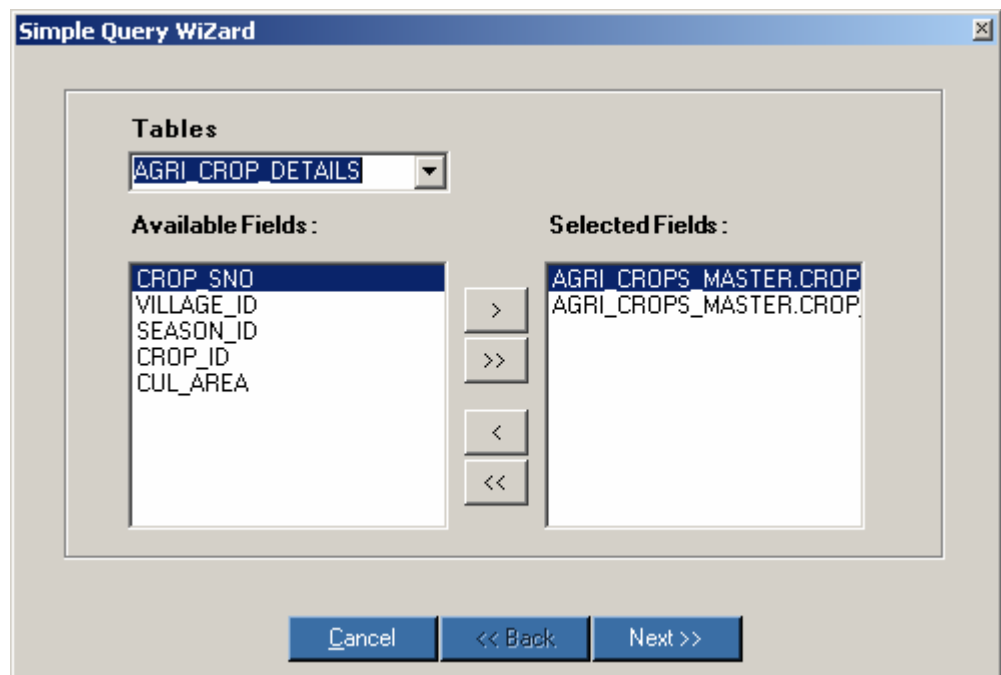
4.6 Add a customized query to metadatabase

Add Custom Query:

This provides a wizard to create a query

Procedure for the Addition of new Custom Query:

- 1) First select the Module on tree view and by right clicking a context menu opens and select Add Custom Query option in it.
- 2) A window will open in that it displays available tables. Select the table and it displays corresponding columns. Select the columns and add by clicking (>) then click next.



- 3) A window is displayed which contains selected fields and relational operators for example equal, less than etc and enter the criteria in compare string field and the click next.

Simple Query Wizard

Builder

Field

AGRI_CROPS_MASTER
AGRI_CROPS_MASTER

☐ Equal
☒ Above
☐ Below
☐ Above or Equal
☐ Below or Equal
☐ Not

☐ Isempty
☐ Is Like
☐ Begins With
☐ Ends In
☐ Order By

Compare to String
12

Resulting Expression : AGRI_CROPS_MASTER.CROP_ID>12

AGRI_CROPS_MASTER.CROP_ID>12

Cancel << Back Next >>

- 4) Next window displays query, modify the query if necessary and click ok.

Simple Query Wizard

What title do you want for your query ?

AGRI_CROPS_MASTER Query

SELECT AGRI_CROPS_MASTER.CROP_ID,AGRI_CROPS_MASTER.CROP_NAME
 FROM AGRI_CROPS_MASTER WHERE AGRI_CROPS_MASTER.CROP_ID>12

Cancel << Back Ok

4.7Industrial Module

Industrial module provides comprehensive information on industries. It gives following information of each industry:

- Industry Name, Type
- Address
- Latitude and Longitude
- Water Source
- Water Consumption
- Product Details
- Raw Material Details
- Effluent Waste Details
- Effluent Discharge
- Fact Finding Committee Report related info
- And many more as shown in the screen-shot

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Industry Details

Industry ID: 392 Industry Name: .MEDICORP TECHNOLOGIES INDIA LTD. Industry Type: Bulk Drugs

Village ID: Pashamylaram Latitude: Longitude: Elevation: CFE Obtained: ☐

IDA Region ID: MEDAK- I (PATANCHI) Address ID: M/S.MEDICORP TECHNOLOGIES INDIA LTD. PLOT NO. 14, 99 and 100, PHASE-II, IDA, PASHAMAILARAM PATANCHERU(M), MEDAK DISTRICT

Regn No: Reg Date: Contact Address ID:

Total Employees:

Water Source Details Water Consumption Details Product Details Raw Materials Details Effluent Waste Details Eff

PRODUCT NAME	PRODUCT CAPACITY
Acyclovir	78.00
Acyclovir Sodium	2.00
Cetirizine	1.00
Cisapride	1.00
Enalapril Maleate	4.00
Fluconazole	5.00

FFC Inspected Industries Industries WRIT_TSDF Industries Heavy Metals Industries Secondary ETP Industries PET

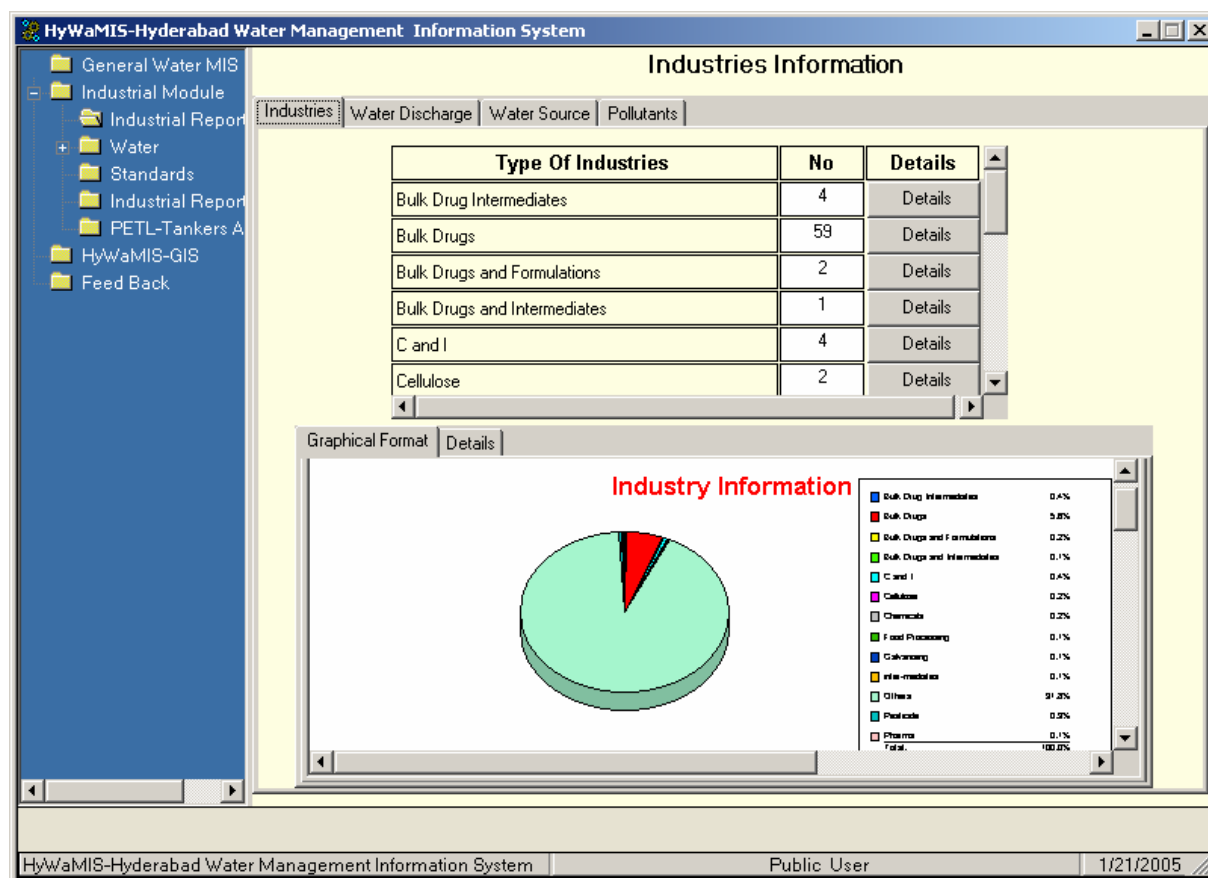
POLLUTANT NAME	POLLUTANT VALUE	WASTE TYP
CHROMIUM	7	Spent Carbon
Lead	12.3	Spent Carbon
CADMIUM	0.3	Spent Carbon
NICKEL	(null)	Spent Carbon
CYANIDE	(null)	Spent Carbon
ASH	(null)	Spent Carbon

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The region combo box provides a filter to display industries form a particular industrial region namely Patancheru, Bollaram or situated in a village.

The check box **All** displays only industries, which have all related information, like pollutants, discharge, raw materials etc.

The following screen gives a report cumulative report on type of industries, type of water discharge, water sources and pollutants, for each type the corresponding details can be retrieved.



This screen consists 4 main tabs to display industry types, water discharge types, water source types and pollutant types which displays consolidate information, and each tab consists two detailed tabs which display detailed information in pictorial/graphical as well as tabular form.

The following screens provide cumulative as well as detailed information on water related parameters, namely consumption, discharge, source and water supply.

For each type of water source/discharge/consumption/supply the list of industries related to that type of parameter are displayed in tabular format. And each screen consists a button namely "Industry Information" that provides complete information on selected industry.

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Industry Information

Water Source

Water Source Borewell

INDUSTRY NAME	CAPACITY	UNIT NAME
Asian paints (India) Ltd.	350.00	KLPD
Aurobindo Pharma Ltd (Unit-I). (formerly Sri Chakra Reme	28.50	KLPD
Aurobindo Pharma Ltd., (Unit - I V)	188.00	KLPD
Aurobindo Pharma Ltd., Unit- V I.	116.00	KLPD
Avon Organics Ltd.	225.00	KLPD
Aurobindo Pharma Ltd., (Unit I I)	300.00	KLPD
Avon Container Printers Ltd.,	1500.00	LPD
Bhanu Cerglaze Pvt.Ltd.,	15200.00	LPD
Everest Organics Ltd.	120.00	KLD
Global Bulk Drugs and Fine Chemicals Pvt. Ltd	477.11	KLD

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Industry Information

Water Discharge

Discharge Method: EVAPORATORS

INDUSTRY NAME	DISCHARGE POINT
Ganapati Sugar Industries Ltd.	On Land For Irrigation
. AUROBINDO PHARMA LTD. UNIT-IV.	Atmosphere
. HINDUSTAN FLUOROCARBONS LTD.	Solar Evaporation Pond
Apex Drugs , Intermediates Ltd.	Forced Evaporation
Arandy Laboratories Ltd.,	Sold Out
. ITW SIGNODE (I) LTD.(ACRYLIC DIV).	Solar Evaporation Pond
Biotech Pharma (P) Ltd.,	Forced Evaporation
D. R. K. Chemicals Pvt. Ltd.,	Forced Evaporation
Divis Pharmaceuticals Pvt.Ltd	Forced Evaporation
.MEDICORP TECHNOLOGIES INDIA LTD.	Atmosphere

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Industry Information

Water Consumption

Consumption Name: Gardening

Description:

INDUSTRYNAME	CONSUMPTI	UNIT NAME
Aurobindo Pharma Ltd., (Unit - I V)	12.00	Kilo Litre/Day
Aurobindo Pharma Ltd., Unit- V I.	35.00	Kilolitres / Da
Aurobindo Pharma Ltd., (Unit I I)	10.00	Kilo Litre/Day
Global Bulk Drugs and Fine Chemicals Pvt. Ltd	75.00	Kilo Litre/Day
Hyderabad Chemical Products Ltd.	6.00	Kilo Litre/Day
M R F Ltd	200.00	Kilo Litre/Day
. Annapurna Foils Ltd.	5.00	Kilo Litre/Day
. AUROBINDO PHARMA LTD. UNIT-IV.	12.00	Kilo Litre/Day
. Biological - E Ltd., Unit-I.	5.00	Kilo Litre/Day
. BMF Belting Ltd.	1.00	Kilo Litre/Day

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The following screen provides legal standard values for each pollutant and different other parameters. It also displays all the industries that violate these parameter standard values.

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Industry Information

Standards

Pollutant Name: PH

Pollutant symbol:

Description: at 25c

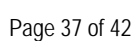
Minimum Value: 6.5

Maximum Value: 8.5

Industry Name	Pollutant Value
Alpex International (P) Ltd.	6.45
Aurobindo Pharma Ltd., (Unit I I)	9.01
Aurobindo Unit VII	5.52
Aurobindo Pharma Ltd., Unit -IX	6.48
Avon Organics Ltd.	6.11
Dr. Curies Labs Ltd.,	1.47
. Deccan Leathers Ltd.	4.9
Deccan Leathers Ltd.	4.2
. Hitesh Chemicals , Drugs Pvt. Ltd.	6
. HYDERABAD CHEMICAL PRODUCTS LTD.	6.1

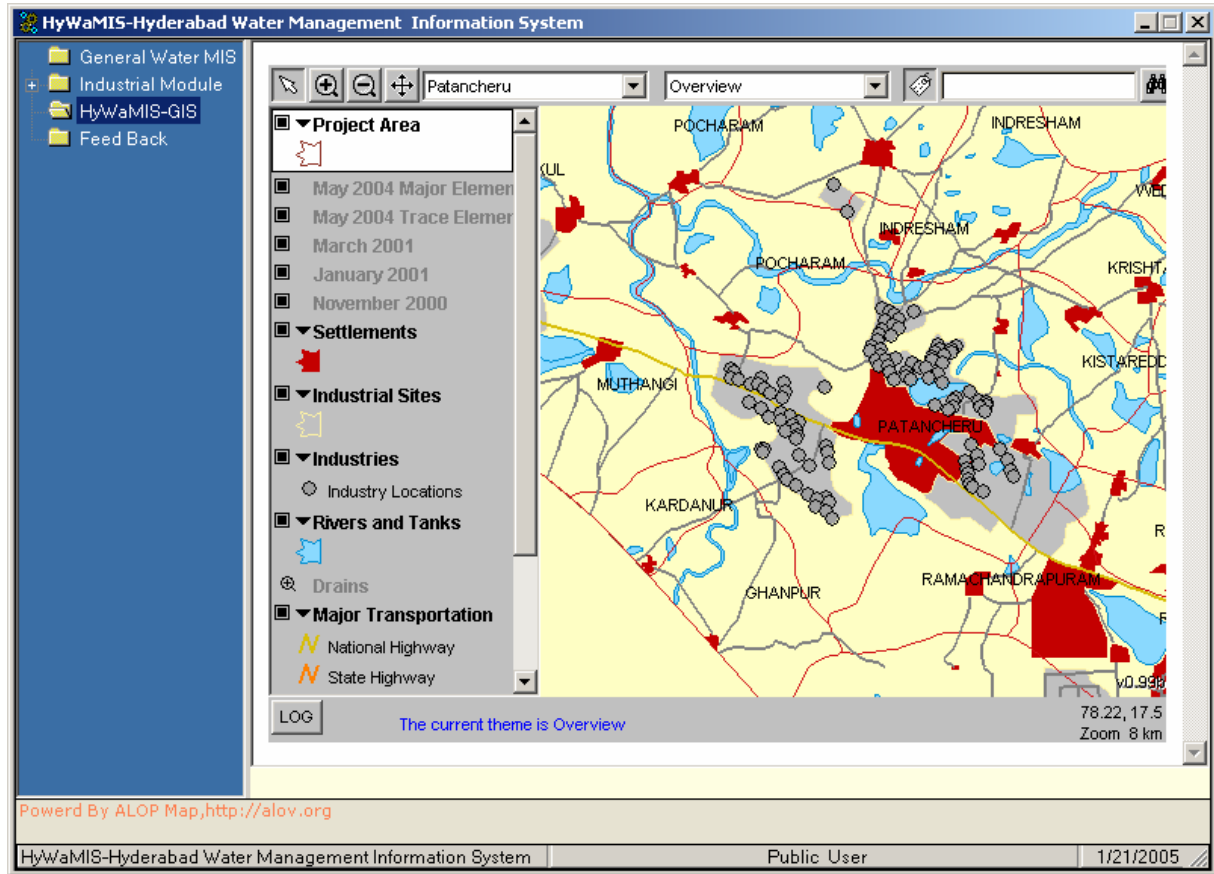
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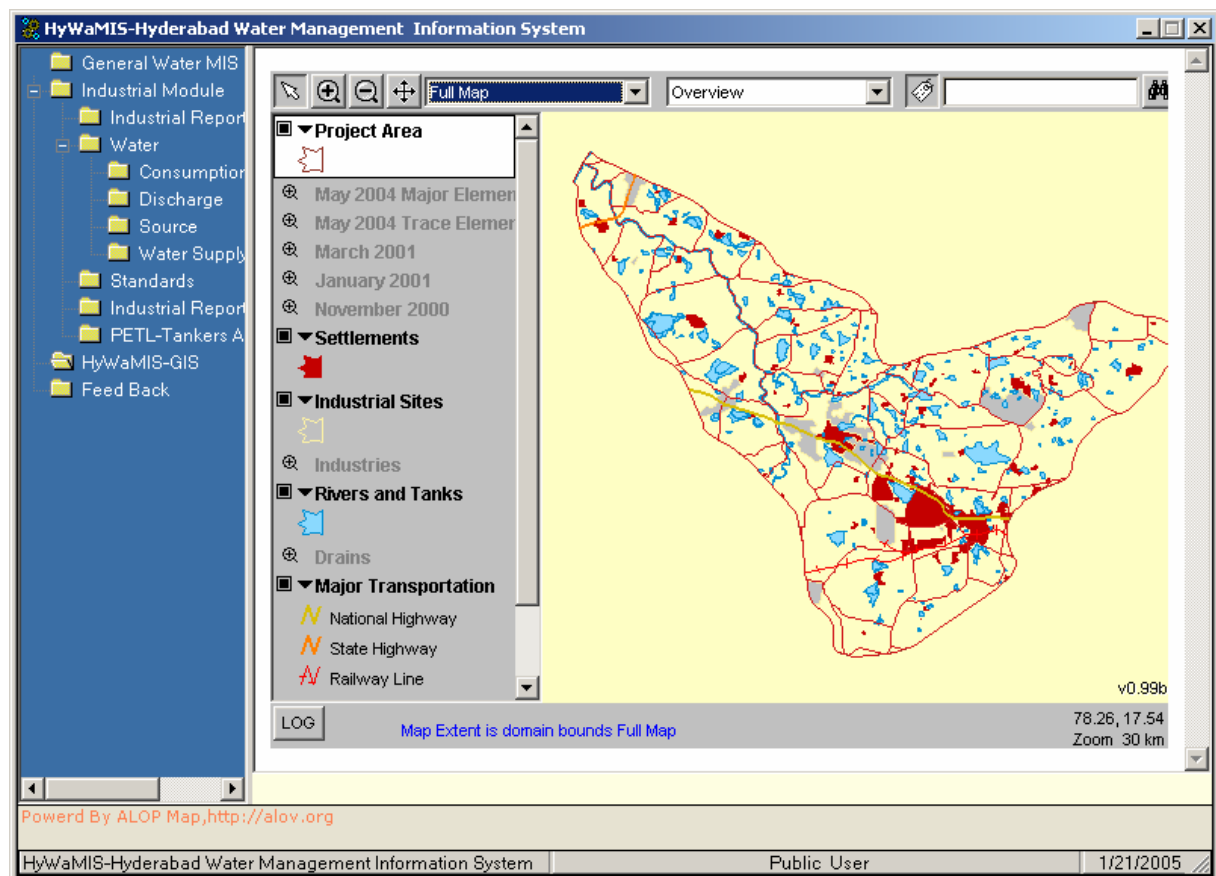
The following screen generates a comprehensive report on industries, and this report is a printer friendly report and also can be exported to .PDF format.



4.8 HyWaMIS GIS

HyWaMIS GIS module provides information on industrial pollution with the help of GIS layers. HyWaMIS uses open source java based Alov map software to display GIS layers developed using Arc GIS/Arc Info software. Some self-explanatory screen-shots.





4.9 Feedback Form

HyWaMIS provides a feedback form to collect end-user opinion about the software and also to evaluate the software and collect ratings on Ease of Use, Design, Comprehensiveness, functionality and overall system.

HyWaMIS-Hyderabad Water Management Information System

HyWaMIS Feedback Form

Name : Email :

Background

☐ Public Authorities
 ☐ Private water Companies
 ☐ Environmental Groups
 ☐ Research Organisations
 ☐ Industries
 ☐ Citizen Groups
 ☐ Farmers

Please rate the HywaMIS prototype against the following:	Excellent	Good	Fair	Poor	No Comment
Ease Of Use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design/Style	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Comprehensiveness	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall Rating	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Functionality	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Does the HywaMIS prototype and industrial module cover the most relevant water-related information topics of the pilot area Patancheru? ☐ Yes ☐ No

Would You continue to use HywaMIS, if available? ☐ Yes ☐ No

Your Comments :

Submit

HyWaMIS-Hyderabad Water Management Information System | Public User | 1/21/2005

5 Getting Started

The connecting string to connect to metadatabase should be set before using HyWaMIS for first time, this should be provided in xml format, and file name should be ConnectionString.xml as given below, this consists keywords to set the user interface language, namely English or Telugu and the corresponding connect strings to connect to the database:

```
<applicationSettings>
  <user>english</user>
  <english>provider=msdaora;user
    id=hywamis;password=hywamis;data source=hywamis</english>
  <telugu>provider=msdaora;user id=telugu;password=telugu;data
    source=hywamis</telugu>
</applicationSettings>
```